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Final Report

Portal Project, Phase 5  
Deer Lodge County, Montana  
IFB 2881-G

January, 1987

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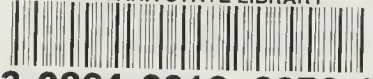
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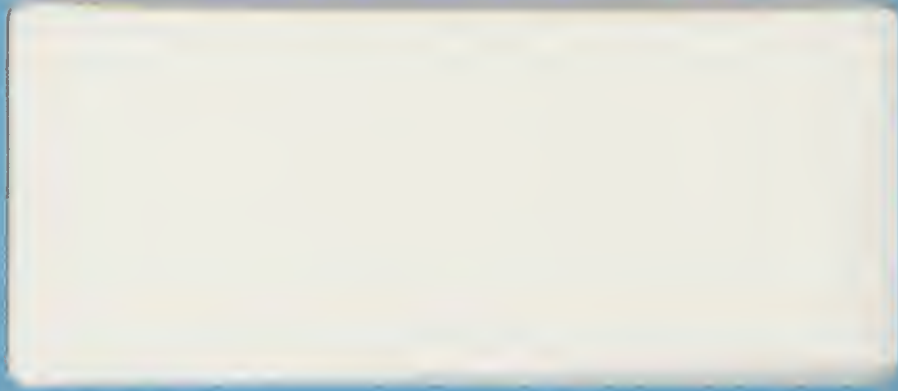
**L. C. HANSON COMPANY**

CONSULTING ENGINEERS & SURVEYORS  
HELENA — GREAT FALLS — GLENDIVE

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Final Report

Portal Project, Phase 5  
Deer Lodge County, Montana  
IFB 2881-G

January, 1987

Prepared for: Mr. Richard Juntunen, Chief  
Abandoned Mine Reclamation  
Bureau  
Department of State Lands  
1625 11th Ave.  
Helena, MT 59620

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## I. Introduction

### A. Project Objectives

The Phase 5 Portal Project was undertaken to eliminate the public safety hazards resulting from unreclaimed mine openings at an abandoned hardrock mine in Deer Lodge County. Perimeter fencing of dangerous shafts and trenches was accomplished to eliminate accidental entry.

### B. Project Location

The project covered the Gold Coin Mine, T5N R13W Secs. 20 NW & 21 NE, in Deer Lodge County, Montana. Location of this site is shown on the vicinity map contained herein.

### C. History

Hardrock mining has taken place in Montana since 1862 and was essentially unregulated from a reclamation standpoint for over one hundred years. This resulted in thousands of hazardous shafts and adits in mining districts across the state.

Gold was discovered in the Gold Coin district in 1898. By 1906 the Gold Coin Mine was in full production with a 30 stamp mill to pulverize the ore. Operations continued until 1912. The depression in the 1930's brought reopening at the Gold Coin and the mine operated continuously from 1930 to 1940. Mining was renewed for brief periods during the 1950's, 1960's and in 1984.

### D. Site Description And Problems

The site included in this project is an historic site, is located close to the public road and in a recreation area. All mine openings threatened public safety. The shafts and trenches involved were of depth great enough to prevent unaided escape upon entry.



## II. Description of Project Reclamation

### A. Project Planning

Backfill was recommended for all mine openings to permanently eliminate the hazards. The landowner refused to allow this, insisting instead on fencing. This technique does accomplish the goal of preventing accidental entry but is semi-permanent in nature and may require maintenance in the future.

### B. Chronological History

Pre-Bid Conference	May 1, 1984
Bid Opening	May 17, 1984
Contract Award	May 18, 1984
Contract Awarded To:	

McDaniels & Sons Contractors  
P.O. Box 33  
Neihart, MT 59465  
(406)236-5357

Pre-construction Meeting	June 11, 1984
Notice to Proceed	June 18, 1984
Began Work	June 18, 1984
Substantial Completion	July 6, 1984
Project Completed	July 6, 1984

### C. Equipment

J.D. 550 Track Crawler with Post Driver  
Dynamite for Blasting Post Holes

### D. Construction Operations

The Contractor drove or blasted and set posts. Combination barbed and woven wire fence installed as specified. The revegetation work was cancelled when the property was sold and the new owners wanted no additional work performed.







### III. Cost Summary

#### A. Final Payment Request

A copy of the Final Payment Request is contained in Appendix A. That document contains the final quantities and costs for each work item.

#### B. Change Order

No Change Orders were executed during the course of the project.

#### C. Cost Per Site / Unit

The following summary describes the work performed (with measured quantities) and the total cost of the project:

1. Gold Coin Mine Site	\$ 9,499.00
a. Install wire fence (201.7 rods)	
b. Install hazard signs (29 each)	
c. Furnish seed	
	-----
Total Project Cost	\$ 9,499.00

### IV. Summary

#### A. Completed Reclamation

The required work was completed within the Contract time allowed.

The project resulted in limiting access to the mine openings by constructing perimeter fencing. Hazard signs were installed where appropriate.

#### B. Comments

Ownership changed during the course of the project.

Renewed mining activity has been undertaken at the project site.

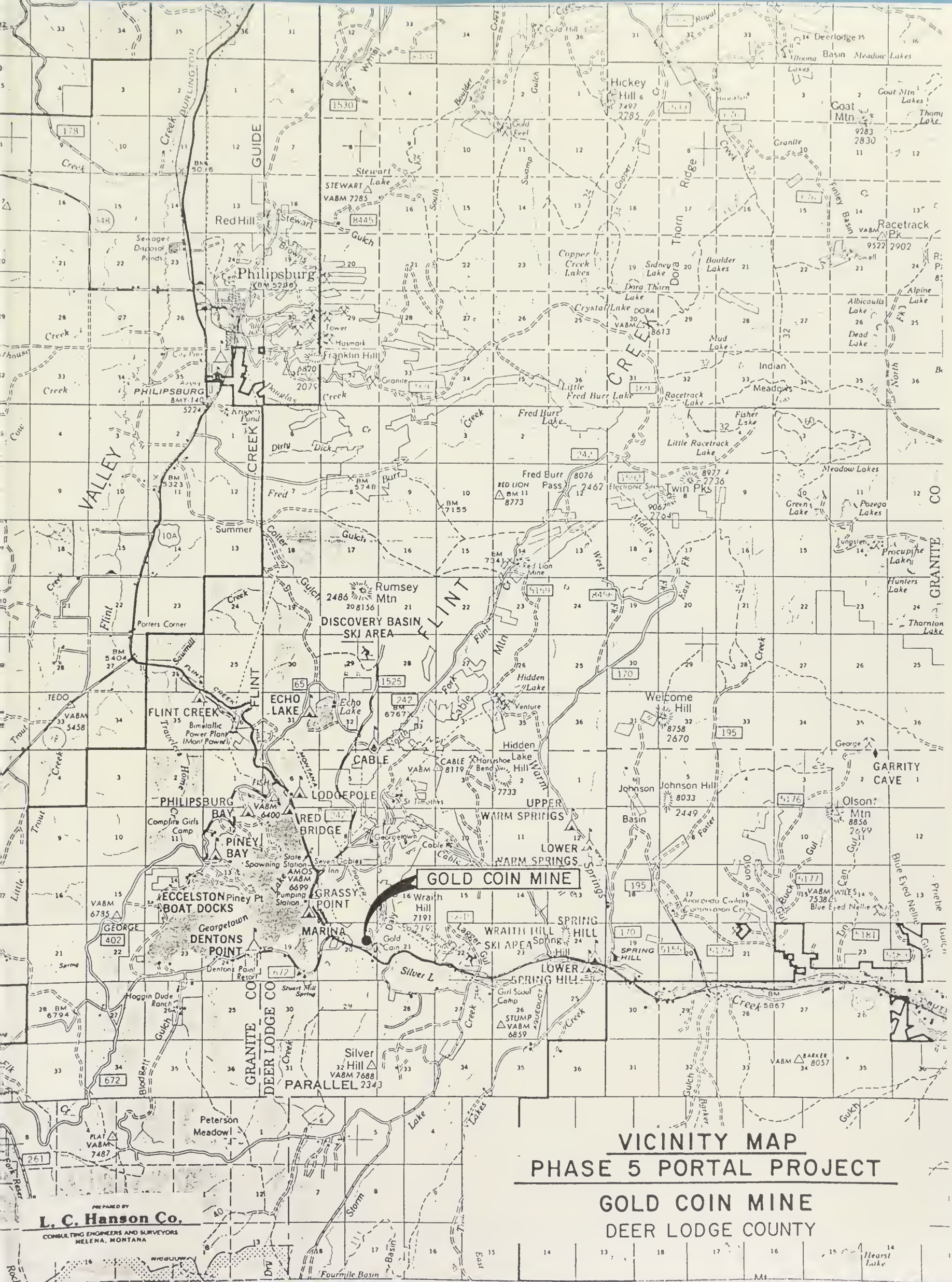


V. Slides

The slide log and slides are contained in Appendix B.







PREPARED BY  
**L. C. Hanson Co.**  
CONSULTING ENGINEERS AND SURVEYORS  
HELENA, MONTANA

**VICINITY MAP**  
**PHASE 5 PORTAL PROJECT**  
**GOLD COIN MINE**  
**DEER LODGE COUNTY**



## APPENDIX A





PROJECT NAME PORTAL PROJECT, PHASE 5 - GOLD COIN MINE

LOCATION DEER LODGE COUNTY, MONTANA

PROJ. NO. IFB 2881-G

NAME OF CONTRACTOR McDANIEL & SONS CONTRACTORS ADDRESS Box 33, Neihart, MT 59465

CHANGE ORDERS			CONTRACT STATUS			
No.	Description	Amount	Total Amount	Completed Amount	Uncompleted Amount	Per Cent Complete
		NOTE: See attached justification for deletion				
		of Bid Item #7.				
Total Change Orders						
CONTRACT TO DATE INCLUDING CHANGE ORDERS			11,434.52	9,460.10	-0-	100%

TOTAL RETAINAGE	\$		COMPLETED TO DATE	\$	9,460.10
SECURITIES ON DEPOSIT	\$		PLUS MATERIALS PURCHASED	\$	39.10
ADJUSTED RETAINAGE	\$		TOTAL COMPLETED TO DATE	\$	9,499.20
*For use only when securities are on deposit in lieu of 10% retainage.			* 0% OR ADJUSTED RETAINAGE	\$	-0-
			TOTAL AMOUNT EARNED TO DATE	\$	9,499.20
			LESS PREVIOUS PAYMENTS	\$	7,568.08
			AMOUNT DUE THIS PAYMENT	\$	1,931.12
			LESS 1% TAX	\$	19.31
			TOTAL DUE CONTRACT	\$	1,911.81

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

McDaniel and Sons Contractors  
(Contractor)

By [Signature]

Date May 23 1985

RECOMMENDED BY:

L. C. Hanson Company  
(Engineer)

By [Signature]

Date 5/28/84

Approved By:

Montana Dept. of State Lands  
Owner

[Signature]

6/15/85



## ITEMIZATION OF QUANTITIES AND COSTS

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	WORK COMPLETED TO DATE	COST COMPLETED WORK	PERCENT COMPLETE
1.	FENCE - WIRE TYPE CW OR CM	179 RODS	28.88	201.7 RODS	\$5,825.10	100%
2.	PANEL - SINGLE TYPE CW OR CM	20 EACH	75.00	7	525.00	100
3.	PANEL - CORNER TYPE CW OR CM	31 EACH	100.00	25	2,500.00	100
4.	GATE - METAL 4 FOOT	30 L.F.	15.00	31 L.F.	465.00	100
5.	DEADMAN	5 EACH	15.00	NONE REQUIRED	0.00	100
6.	INSTALL OWNER-FURNISHED SIGNS	28 EACH	5.00	29	145.00	100
7.	SEED, FERTILIZER, MULCH	LUMP SUM	*1,000.00	NONE	0.00	0
* Deleted - SEE ATTACHED JUSTIFICATION.						



PAYMENT REQUEST NO. 3 (FINAL) (FOR RETAINAGE AND SEED)  
PORTAL PROJECT, PHASE 5 - GOLD COIN MINE - DEER LODGE COUNTY, MT IFB 2881-G  
May 20, 1985

JUSTIFICATION: Subsequent to completion of the fencing, Lorraine Hoben of Anaconda, MT sold the GOLD COIN MINE to Midas Gold, Inc. of Spokane, Washington. Midas is currently working the area extensively and does not wish any further work done on the property. The seeding, fertilizing and mulching in the LUMP SUM BID PRICE of \$1,000.00 is, therefore, deleted. The Contractor had purchased seed last fall in the amount of \$34.00 for use on this project as per the attached invoice.

The total payment for this request is, therefore, in the amount of the retainage (\$1,892.02) and the seed plus a 15% handling charge (Total \$39.10) for a TOTAL of \$1,931.12.





## APPENDIX B



Phase 5 Portal Project  
Gold Coin Mine  
Silver Lake Mining District, Deer Lodge County  
Slide Log

1.	Oct., 1982	Before:	Gold Coin Mine - view with mill
2.	Oct., 1982	Before:	Gold Coin Mine - aerial view
3.	Oct., 1982	Before:	Gold Coin Mine - aerial view
4.	Oct., 1982	Before:	Gold Coin Mine - aerial view
5.	Oct., 1982	Before:	Gold Coin Mine - aerial view
6.	Oct., 1982	Before:	Gold Coin Mine - aerial view, shaft #1
7.	Oct., 1982	Before:	Gold Coin Mine - aerial view, trench #2
8.	Oct., 1982	Before:	Gold Coin Mine - aerial view
9.	Oct., 1982	Before:	Gold Coin Mine - aerial view
10.	Oct., 1982	Before:	Gold Coin Mine - aerial view
11.	May, 1983	Before:	Gold Coin Mine - lower workings & mill
12.	May, 1983	Before:	Gold Coin Mine - mill
13.	May, 1983	Before:	Gold Coin shaft #1 at cabin - fence
14.	May, 1983	Before:	Gold Coin shaft #1 at cabin - fence
15.	May, 1983	Before:	Gold Coin shaft #1 at cabin - fence
16.	July, 1984	During:	Gold Coin shaft #1 - fence installed
17.	July, 1984	During:	Gold Coin shaft #1 - fence installed
18.	July, 1984	During:	Gold Coin shaft #1 - fence installed
19.	July, 1984	During:	Gold Coin shaft #1 - fence installed
20.	May, 1983	Before:	Gold Coin east trench - enclosed in area #1 fence
21.	May, 1983	Before:	Gold Coin east trench - enclosed in area #1 fence
22.	May, 1983	Before:	Gold Coin east trench - enclosed in area #1 fence
23.	May, 1983	Before:	Gold Coin east trench - enclosed in area #1 fence
24.	May, 1983	Before:	Gold Coin east trench - enclosed in area #1 fence
25.	May, 1983	Before:	Gold Coin east trench - enclosed in area #1 fence
26.	May, 1983	Before:	Gold Coin east trench - enclosed in area #1 fence
27.	July, 1984	Before:	Gold Coin area #1 enclosure - preconstruction
28.	July, 1984	Before:	Gold Coin area #1 enclosure - preconstruction
29.	July, 1984	Before:	Gold Coin area #1 enclosure - preconstruction
30.	July, 1984	Before:	Gold Coin area #1 enclosure - preconstruction
31.	July, 1984	Before:	Gold Coin area #1 enclosure - preconstruction
32.	July, 1984	Before:	Gold Coin area #1 enclosure -



			preconstruction
33.	July, 1984	Before:	Gold Coin area #1 enclosure - preconstruction
34.	July, 1984	Before:	Gold Coin area #1 enclosure - preconstruction
35.	July, 1984	Before:	Gold Coin area #1 enclosure - preconstruction
36.	July, 1984	Before:	Gold Coin area #1 enclosure - preconstruction
37.	July, 1984	Before:	Gold Coin area #1 enclosure - preconstruction
38.	July, 1984	Before:	Gold Coin area #1 enclosure - preconstruction
39.	July, 1984	Before:	Gold Coin area #1 enclosure - preconstruction
40.	July, 1984	During:	Gold Coin - post stockpile near mill
41.	July, 1984	During:	Gold Coin area #1 enclosure - fence construction, shows some site damage
42.	July, 1984	During:	Gold Coin area #1 enclosure
43.	July, 1984	After:	Gold Coin area #1 traverse sequence - 1/9
44.	July, 1984	After:	Gold Coin area #1 traverse sequence - 2/9
45.	July, 1984	After:	Gold Coin area #1 traverse sequence - 3/9
46.	July, 1984	After:	Gold Coin area #1 traverse sequence - 4/9
47.	July, 1984	After:	Gold Coin area #1 traverse sequence - 5/9
48.	July, 1984	After:	Gold Coin area #1 traverse sequence - 6/9
49.	July, 1984	After:	Gold Coin area #1 traverse sequence - 7/9
50.	July, 1984	After:	Gold Coin area #1 traverse sequence - 8/9
51.	July, 1984	After:	Gold Coin area #1 traverse sequence - 9/9
52.	May, 1983	Before:	Gold Coin west trench - enclosed in area #2 fence
53.	May, 1983	Before:	Gold Coin west trench - enclosed in area #2 fence
54.	May, 1983	Before:	Gold Coin west trench - enclosed in area #2 fence
55.	July, 1984	Before:	Gold Coin area #2 enclosure - preconstruction
56.	July, 1984	Before:	Gold Coin area #2 enclosure - preconstruction
57.	July, 1984	Before:	Gold Coin area #2 enclosure - preconstruction
58.	July, 1984	Before:	Gold Coin area #2 enclosure - preconstruction
59.	July, 1984	Before:	Gold Coin area #2 enclosure - preconstruction
60.	July, 1984	Before:	Gold Coin area #2 enclosure - preconstruction
61.	July, 1984	Before:	Gold Coin area #2 enclosure - preconstruction
62.	July, 1984	Before:	Gold Coin area #2 enclosure - preconstruction
63.	July, 1984	Before:	Gold Coin area #2 enclosure - preconstruction





64.	July, 1984	After:	Gold Coin area #2 traverse sequence - 1/10
65.	July, 1984	After:	Gold Coin area #2 traverse sequence - 2/10
66.	July, 1984	After:	Gold Coin area #2 traverse sequence - 3/10
67.	July, 1984	After:	Gold Coin area #2 traverse sequence - 4/10
68.	July, 1984	After:	Gold Coin area #2 traverse sequence - 5/10
69.	July, 1984	After:	Gold Coin area #2 traverse sequence - 6/10
70.	July, 1984	After:	Gold Coin area #2 traverse sequence - 7/10
71.	July, 1984	After:	Gold Coin area #2 traverse sequence - 8/10
72.	July, 1984	After:	Gold Coin area #2 traverse sequence - 9/10
73.	July, 1984	After:	Gold Coin area #2 traverse sequence -10/10
74.	May, 1983	Before:	Gold Coin ridgeline workings - enclosed in area #3 fence
75.	May, 1983	Before:	Gold Coin ridgeline workings - enclosed in area #3 fence
76.	May, 1983	Before:	Gold Coin ridgeline workings - enclosed in area #3 fence
77.	May, 1983	Before:	Gold Coin ridgeline workings - enclosed in area #3 fence
78.	May, 1983	Before:	Gold Coin ridgeline workings - enclosed in area #3 fence
79.	May, 1983	Before:	Gold Coin ridgeline workings - enclosed in area #3 fence
80.	July, 1984	Before:	Gold Coin area #3 enclosure - preconstruction
81.	July, 1984	Before:	Gold Coin area #3 enclosure - preconstruction
82.	July, 1984	Before:	Gold Coin area #3 enclosure - preconstruction
83.	July, 1984	Before:	Gold Coin area #3 enclosure - preconstruction
84.	July, 1984	Before:	Gold Coin area #3 enclosure - preconstruction
85.	July, 1984	Before:	Gold Coin area #3 enclosure - preconstruction
86.	July, 1984	During:	Gold Coin area #3 corner post installation sequence 1/6
87.	July, 1984	During:	Gold Coin area #3 corner post installation sequence 2/6
88.	July, 1984	During:	Gold Coin area #3 corner post installation sequence 3/6
89.	July, 1984	During:	Gold Coin area #3 corner post installation sequence 4/6
90.	July, 1984	During:	Gold Coin area #3 corner post installation sequence 5/6
91.	July, 1984	During:	Gold Coin area #3 corner post installation sequence 6/6
92.	July, 1984	After:	Gold Coin area #3 traverse sequence - 1/10
93.	July, 1984	After:	Gold Coin area #3 traverse sequence - 2/10
94.	July, 1984	After:	Gold Coin area #3 traverse sequence - 3/10
95.	July, 1984	After:	Gold Coin area #3 traverse sequence - 4/10
96.	July, 1984	After:	Gold Coin area #3 traverse sequence - 5/10
97.	July, 1984	After:	Gold Coin area #3 traverse sequence - 6/10





98.	July, 1984	After:	Gold Coin area #3 traverse sequence - 7/10
99.	July, 1984	After:	Gold Coin area #3 traverse sequence - 8/10
100.	July, 1984	After:	Gold Coin area #3 traverse sequence - 9/10
101.	July, 1984	After:	Gold Coin area #3 traverse sequence - 10/10
102.	May, 1983	Before:	Gold Coin shaft # 5 - fence
103.	July, 1984	During:	Gold Coin shaft #5 - fence construction
104.	July, 1984	During:	Gold Coin shaft #5 - fence construction
105.	July, 1984	During:	Gold Coin shaft #5 - fence construction
106.	May, 1983	Before:	Gold Coin lower workings
107.	May, 1983	Before:	Gold Coin shaft #6 - fence
108.	July, 1984	During:	Gold Coin shaft #6 - fence construction
109.	July, 1984	After:	Gold Coin shaft #6 - site damage
110.	July, 1984	After:	Gold Coin shaft #6 - site damage
111.	July, 1984	Before:	Gold Coin - access conditions prior to construction
112.	July, 1984	Before:	Gold Coin - access conditions prior to construction
113.	July, 1984	Before:	Gold Coin - access conditions prior to construction
114.	July, 1984	Before:	Gold Coin - access conditions prior to construction
115.	July, 1984	After:	Gold Coin - site damage near shafts #1 & #5
116.	July, 1984	After:	Gold Coin - site damage above fence enclosures #1 & #2
117.	July, 1984	After:	Gold Coin - wheel track access to fence enclosure #2
118.	July, 1984	After:	Gold Coin - access road created by contractor
119.	July, 1984	After:	Gold Coin - access road created by contractor near fence enclosure #3
120.	Sept., 1984	After:	Phase 5 final inspection of fencing
121.	Sept., 1984	After:	Phase 5 final inspection of fencing
122.	Sept., 1984	After:	Phase 5 final inspection of fencing
123.	Sept., 1984	After:	Phase 5 final inspection of fencing
124.	Sept., 1984	After:	Phase 5 final inspection of fencing





